Robert L. Short Tennessee, USA Skype: scroll.raider

Email: type1civilization@hotmail.com

VIA ECFS

June 17, 2016

Marlene H. Dortch, Secretary

Tom Wheeler, Chairman

Federal Communications Commission

445 12th Street, SW

Washington, DC 20554

Attention: Wireline Competition Bureau

Re: COMMENT - WC Docket No. 10-90, WC Docket 14-58, WC Docket No. 14-259

Dear Ms. Dortch and Mr. Wheeler:

I write to publicly comment on the "Report and Order and Further Notice of Proposed Rulemaking" released on May 26, 2016 (FCC document 16-64) before the Federal Communications Commission (FCC) in the matter of the Connect America Fund, Eligible Telecommunications Carrier annual reports and certifications, and the Rural Broadband Experiments.

A Rural Broadband Experiments project in the Appalachian Mountains could demonstrate an Innovative System to become the locomotive of a knowledge economy. With an Innovative System, Private Public Partnerships for Peace and Prosperity (PPP4P&P) could wield the agents of change to progress to Web 3.0. I have provided a brief summary of related information in the following pages.

Thank you for the informative speech in Pikeville, Kentucky at the 2016 SOAR event. I enjoyed being there. I look forward to opportunities of working with you to bring "Broadband for All!" and value-added community or country benefits, one community at a time, in support of WSIS outcomes in rural America.

Sincerely,

Robert L. Short

Scroll Raider

The Locomotive of a Knowledge Economy.

An Innovative System is a combination of technology, scientific Axiology, and organizational models brought together in a unified working method. The technology portion of the Innovative System is the catalyst for the progression to Web 3.0 and is referred to as an Intelligent Agent.

- The Intelligent Agent achieves machine reasoning and interoperability through three levels of knowledge representation (e.g., syntactical, structural, and semantic).
- The syntactical level includes Taxonomies, lists, glossaries, and relational schemes.
- The structural level includes thesaurus, dictionaries, and models.
- In the semantic level, the Intelligent Agent concludes human-to-machine reasoning interoperability and the triangulation of data using value theory mathematics of Axiological Psychology.

The Intelligent Agent differs from modern Object Oriented applications' two-part design of data and executable code. In contrast, MicroApp Frameworks, data, and executable code make up the Intelligent Agent's three-part design. The foremost significant advantage to the Intelligent Agent is that any user may quickly model and rapidly deploy an unlimited number of applications. MicroApp Frameworks reduce the development costs to pennies on the hundreds-of-dollars for many applications and produce capacity in a fraction of the time. Scientific Axiology portion of the Innovative System utilizes the Intelligent Agent's MicroApp Frameworks (Axiological Resource Description Frameworks "ARDF") to collaborate sustainable economic development models. Such dynamics can provide the first rapid deployment of a drag-n-drop open government deployable anywhere in the world in moments where there are sufficient infrastructures.

Community Rollout Servers

Rapid deployment of Community Rollout Servers will bring about collaboration within and between communities and Big Data analytics. This collaboration enables the Sustainable Development Goals (SDGs) progression through improving upon conditions that favor Foreign Direct Investment (FDI). A Rollout Community Server provides a regiment of frameworks for governance, firms, research centers, institutions, universities, think tanks, consultants, and other organizations to serve the people that make up the community. With Community Rollout Servers and Big Data analytics, communities can better realize a people centered governance and improve upon localizing outside investment availability. Secondary offices, boards, committees and commissions adhere to rules of eligibility essential to qualify for investment guarantees. With Community Rollout Servers, the data using the Intelligent Agent can establish a Community Information Trust for the citizens and the system they own and maintain. The Community Trust provides a micro-tasking framework to organize a civilization, governance,

county, town, state or census block. One example would suggest a Community Public Records Commission. The public records are compliance maintained using rules and oversight links to Big Data across an open-data web at the macro level. Predictive analysis is distributed through the micro level of Cloud computing. The dynamics of Big Data and predictive capabilities make the rollout servers the best tools to enable disaster recovery plans for restoring governance, property rights, resources and thus civil order.

Digital state of Cumberland Technology Pilot

Mapping census blocks at the ISP level is the new challenge for modeling a 21st century type governance and economy. The Digi-land digital boundary is located in the southern-most area of Central Appalachia of the United States. The region is a digital imprint of a cluster of nine geographical areas (counties) that share certain economic and social similarities and are made up of three bordering states (i.e., Tennessee, Kentucky and Virginia). Whereas, through privacy policy and the potentials among Private Public Partnerships, communities may better bridge the gender divide and benefit from web connectivity in a more meaningful manner. The Digi-land strategy is to acclimate the sustainability needs of the communities with the creation of Knowledge Societies to sustain it. This 21st century workforce drives education and the economy by the mechanizing and measuring of top-down enablers that meet bottom-up results that target a more sustainable world – at the community level.

The Digi-land challenges become opportunities as issues of climate change are decoupled from ICT growth while sustainable innovations begin to reach the local communities. The Knowledge Society is to assist with top-down resources and through capacity building to absorb rapid deployment of sustainable innovations and large capital investment. Overall outcomes for Digiland target local and global improvement in the region's Foreign Direct Investment potential by strengthening the opportunities for participants that increase individual and collective knowledge absorptive capacity.

The Three New Standards Essential to Survival in the 21st Century

The concretization of the criteria for an action plan is based upon capacity building to meet new standards which are subsequent to an open-data revolution. The project's research conveys a need for balance between the coexistence of good governance and the expansion of the knowledge economy trade. The technology pilot innovation is Resource Descriptive and Declarative Frameworks (RDF) to assure transparency and rapid dissemination and transportability. The RDFs will serve as micro-tasking frameworks which will be used by any participant to model the action plan criteria formalizing open data with the seven (7) knowledge corridors (i.e., governance, time bound procedures, education, healthcare, transportation, knowledge societies, and value centers). Utilizing micro-tasking frameworks allows testing of open-data initiatives prior to capacity building. The RDFs will be made available by title selection and animated using a semantic intelligence inference engine, also referred to as a cognitive

agent. The RDF driven cognitive agent lends to the flexibility and efficiency in the publication, distribution and reuse of open data. To demonstrate the subsequent advent of Semantic Intelligence three (3) new standards will emerge. These standards will be essential to survival in the 21st century for all aspects of civilization and they are:

- Information dissemination without structured processes.
- Change and the capability to rapidly deploy change.
- Systems will be declarative so the non-programmer types may maintain them.

Narrative

Are we ready?

The most pressing question upon proponents of change is quickly becoming, "Are we ready?" This expression of interest is to comment on the correlation of Web 3.0 based civilization and knowledge tooling capabilities with other models that target similar outcomes around the world. The timeline starts at 1983 which Flashes Forward through research and time outs landing into the early months of 2010. The middle point timeline marker that we may now observe as the enabling of a Paradigm. The Paradigm Enabling is to bring forward, by summation, the three significant milestones completed with coming milestones that are based upon outcomes produced by use of micro-level data when correlated at the macro-level scale. The coming milestones are datafication of various aspects of civilization against the background of Big Data concepts. The outcome serves as a means to help communities become more resilient and therefore, more sustainable. (Big Data Defined, n.d.)

Rural Broadband Experiments

The Rural Broadband Experiments demonstration could establish certain provisions common to sovereign governments. The Rural Broadband Experiments demonstration would operate on a *paradigm shift* that targets a "Type 1 Civilization" progression, referred to as the *T1C Vision*. The *T1C Vision* is a civilization progression socially and economically stimulated by the rapid deployment of sustainable innovations and large capital investment. The Rural Broadband Experiments demonstration would promote Web3.0 features, such as civilization and knowledge tooling. Such tooling capacity adds to a more positive outcome for the engineering of a sustainable civilization progression to emerge as a product and service of the Knowledge Economy Trade. The Rural Broadband Experiments demonstration would promote outcomes that include human-capital to be considered as a non-gender quantitative instrument and as such, a means to enable further prosperity at community level. The Rural Broadband Experiments demonstration would promote conditions conducive to open-data policy which help bring together large trading blocks that give way to the emergence of a global knowledge economy trade and fast-track-trade.

Outcome Orientation

The proposition for a demonstration is to provide a means that only a multi-national and multi-stakeholder declaration can fulfill. The outcome of the data revolution depends upon a coupling of the predictive capabilities of Big Data concepts and community. The aligning of three significant outcomes have brought together an opportunity to correlate various contextual enablers within a multi-national and multi-stakeholder declaration by which facilitation mechanisms allow demonstration outcomes through anticipated high level results. The struggle to becoming a more sustainable world is not over, but most certainly, has just begun. Together, the enablers and facilitation mechanisms establish a process by which the demonstration of the subsequent changes that follow when communities engage its sustainable outcomes "by a mathematical mean" and through Big Data concepts.

Outcome Fnablers

The new global *paradigm* is rooted in the World Summit on the Information Society 11 action lines and grounded upon the United Nations 17 Sustainable Development Goals. The *Paradigm shift's* resilience is through establishing non-paradoxical growth potential when top down resources meet with bottom up grassroots initiatives.

Outcome Mechanisms

The Rural Broadband Experiments demonstration will structure ICT innovations for progression through the Cloud Architecture, as a form of Applied AI referred to as Axiological Artificial Intelligence. At the center of this initiative presents an innovation that enables Big Data concepts to correlate predictive outcome oriented scenarios as another component of utilizing web based technologies and as a means for civilization and knowledge tooling. The outcome provides a platform by which a new global *paradigm shift* may be assessed through the contribution to peace and prosperity and ultimately, the eradication of extreme poverty.

Outcome Outreach

A project of interest is the Appalachian Community Capital, a new central bank for development lenders to increase capital availability for businesses which connects 13-states and the area is referred to, by federal definitions, as the Appalachian Region. Its regional equity is mechanized by Bank of America, Deutsche Bank, Calvert Foundation, and the Ford Foundation. High level efforts have improved links between community sustainable innovation projects and large capital investment.

Shapers of the Big Data Paradigm

To best understand the shaping of a *paradigm*, explore its dynamics. In 1962, Thomas Kuhn coined the concept of "paradigm shift" in his book titled, <u>The Structure of Scientific Revolution</u> (p10). The way Thomas Kuhn puts it, scientific advancements are not evolutionary. To continue,

Kuhn insights suggest that the best advancements in education alone are not enough to reach *paradigm* potential. On the other hand, Thomas Kuhn does point out that a revolution occurs when "one conceptual world view is replaced by another". One key point of interest is that Thomas Kuhn suggests that a *paradigm shift* is not incidental and that desired outcomes must be subsequently driven by agents of change.

Agents of Change

Big Data concepts do shed new light on Thomas Kuhn's insightful analysis. This new light, if wielded properly, implicates that Big Data could be the turning point. The way Thomas Kuhn presents observations, the absence of action does not extinguish the synergy harnessed within a paradigm but rather self-evokes the agents of change to accelerate in a continuation of conditions until the outcome becomes a limited or distorted worldview. Taking Thomas Kuhn's insights a step further could cause focus to better consider systems must be non-paradoxical in order for Big Data concepts to improve upon the worldview - that is, to become realized at the community level.

Regiments to Change

The causality that demands attention to Thomas Kuhn can be found to evolve through the predictive capabilities of correlating outcomes using Big Data rather than causation. Further review of the causality propositions researchers and enthusiasts alike to reconsider the chicken and egg syndrome relative to the paradigm, a.k.a. phenomenology. The *paradigm awakening* follows the conundrum that each person builds upon the community that seeks to rationalize which came first; has the computer created the predictive outcomes derived from Big Data or rather has the computer revealed the potential that such a *paradigm* is truly hidden within a phenomenology that has been with mankind since the awareness of self and the need for community.

Recipients of Change

The simplest of appraisal affirms that Big Data concepts are relevant to Kuhn's suggestive insights. Agency departments and anyone who not restricted from big data concepts, could use such insights to make relative writings of many prominent historians, theologians and thinkers who in general purport that individuals, as well as entire civilizations, are continuously engaged through the highest levels of the collective subconscious mind. Thomas Kuhn steps a common worldview forward that dares to suggest that the ideals of a *paradigm shift* is truly transformation and its expansion is to co-create its own experience. Agency departments and anyone who not restricted from big data concepts, could engage.

Scenario Planning Paradigm Outcomes

The *paradigm shift* as an outcome is summed up through a worldview that is supported by the use of sustainable innovations that shape and mold a better world. The *paradigm shift*, as a

mechanism, is made up of three initial Scenario Planning schemes that come together and engage the dynamics that make up a *paradigm shift*. The *Paradigm Enabling* discusses top down initiatives that favor a positive improvement with outcome oriented potential is addressed by the dynamics of the following:

- Global Chapters of the Dr. Robert S. Hartman Institute of Formal and Applied Axiology
- World Bank ICT and OGP initiatives
- United Nations World Summit on the Information Society evolving of the 17-SDGs

The Dr. Robert S. Hartman Institute of Formal and Applied Axiology

October of 2006 marks the timeline for the first of three presentations at the Dr. Robert S. Hartman Institute of Formal and Applied Axiology annual conferences. The first presentation introduced a new form of Applied AI and the role that Axiology will play in Axiological Artificial Intelligence. October of 2010 marks the timeline with the second presentation at the RSHI conference on the role of Axiology in the engineering of a civilization progression and the knowledge economy trade. October of 2014 marks the timeline of the third presentation at the RSHI conference on the globalization of scientific Axiology and its role in the new global deal.

Outcome Certification

The spillover into ICT certification will enable a value based civilization progression to emerge using existing enablers and mechanisms with tools made available as part of a semantic intelligence web. Therefore, scientific Axiology is an enabler for the *paradigm shift* and will mark the turning point that guides humanity toward a more sustainable planet. Scientific Axiology provides three significant benefits to the engineering of a sustainable civilization progression:

- First benefit, an Axiology provides Algorithmist and software developers with a dialectic instrument as a means to rapidly achieve machine reasoning capabilities required to help enable a Big Data *paradigm shift*.
- Second benefit, an Axiology provides Algorithmist with tools that enable and facilitate the predictive capabilities of Big Data to SP capacity building.
- Third benefit, Axiology provides Algorithmist an extended reach into outcomes that project management may strategically correlate SP and establish a mean value for measuring before and after scenarios through more common algorithms such as Statistical Process Control. (Wikipedia SPC, n.d.)

Value Volubility

Scientific Axiology adds the ability to value and measure knowledge absorptivity capacity, building decision making capacity and predictive and subjective assessments for the

quantitative analysis for human-capital. The paradigm shift follows scientific Axiology and semantic intelligence to quantify value-volubility as a means to revisit the original social contract with governance that defines, "What is public good?" versus "What is public interests?" Whereas, Value-Volubility suggests to measure the quality of the flow of words through the extraction of meaningful knowledge that supports:

- knowledge of;
- knowledge about;
- knowledge how.

Public Good

The role of Axiology lays the scientific foundation by which the value of *public good* may be extracted from the flow of social media content. October of 2014 marks the timeline when the RSHI formalized a research team which is made up of chapter members from the United States, Mexico and Europe. As a stakeholder in the outcome, the RSHI research criteria is prioritized in the formalization of Axiology as the criteria for setting industry standards in education as well as governance through the dynamics of social media. In addition, a certification process will further enable a web 3 progression (micro-level) presence against a Big Data background (macro-level) in order to mechanize a *Paradigm Shift* of a positive worldview at a community level (a.k.a., a reality made available).

World Bank ICT Panel Recommendations

The milestone event occurred on February 27th of 2013 which was the World Bank ICT Panel discussion titled, "Co-creating for the future." The panel members are among the leading ICT experts from government, business and academia. The expert panel audience includes the members of the Open Government Partnership and an attending guest representative of Kenya.

The two day WB ICT Days session contained three (3) suggestions made to the OGP that are also the essentials for a Web 3 Progression. The expert panel agreed that change would be a transition most likely to occur through the expansion of the ICT sector. A member of the expert panel followed with a recommendation that value training be included as part of ICT certifications. In addition, another member of the expert panel suggested the use micro-tasking frameworks as a means to achieve targeted goals. The ICT panel recommendations enable a web 3 progression to mechanize a *paradigm shift* through:

- value education as part of ICT certification,
- micro-tasking frameworks, and
- knowledge centers.

United Nations World Summit on the Information Society

December of 2011 marks the timeline when the project first emerged for globalization through the WSIS and the International Telecommunications Union competition submission. July of 2015 marks the timeline when the first of three AEF submissions requesting for enablers to be considered within the WSIS final outcome document. The second WSIS submission marks the timeline with additional feedback essential for a web based civilization progression. December of 2015 marks the timeline with the third WSIS submission by which included requests for syntactical enablers allowing for the exploration of:

- Financial instruments for human-capital and institutions for settlements.
- Fast track trade provisioning for establishing a knowledge economy.

July 2 and December 15 of 2015, Joan Minor of Appalachian Resources, Inc., attended both WSIS forum meetings at the United Nations Building in New York.

The Rural Broadband Experiments Pilot Project

The Rural Broadband Experiments demonstration was envisioned by Robert L. Short to serve as a platform conducive to model, resource and deploy an e-Governance system using Semantic Intelligent Web technologies and Big Data concepts. The proposed project seeks to pilot e-Governance modeling of civilization and knowledge-based structures and gather data for large scale Semantic Intelligent Web deployments. The data gathered will better rationalize and maximize real social, economic and ecological impact analysis at micro-level. The pilot demonstration would include the use of civilization and knowledge tooling capabilities that enable resilience by the rapid deployment of change in a world driven by content providers and the Semantic Intelligent Web.